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U.S. DEPARTMENT OF COMMERCE
PATENT AND TRADEMARK OFFICE

**DECLARATION UNDER 37 C.F.R. 1.131 OF
DWIGHT A. MERRIMAN AND KEVIN J. O'CONNOR**

Docket Number:
11032-2144

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Reissue Applicant
Dwight Allen MERRIMAN
et al

Reissue Application No.
09/577,798

Reissue Filing Date
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Patent Number
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Examiner
Harle, J.

Art Unit
2168

Invention Title
**METHOD OF DELIVERY, TARGETING, AND MEASURING
ADVERTISING OVER NETWORKS**

Assignee
DoubleClick Inc.

Address to:
Commissioner for Patents
Washington D.C. 20231

We, Dwight A. Merriman and Kevin J. O'Connor, declare that:

1. We are the named inventors of the claimed subject matter in the above identified patent and reissue application. We are informed that the application currently contains claims 1-57.
2. The invention as defined by the claims was completed by an actual reduction to practice prior to May 1996. Evidence of this fact is shown by the following statements and the attached exhibit.
3. The actual reduction to practice included a Content Provider Affiliate node, an Advertiser node, a user node and an Advertisement Server node, as such terms are recited in the claims.
4. In particular, the system was tested prior to May 1996 using a live Content Provider Affiliate Web site, <http://www.iaf.net>. The name of the IAF Web site is "Internet Address Finder", which Web site is active today.

5. To test the invented system, a link message (an HTML tag) was inserted into a Web page at the IAF Web site at a position where an advertisement was to be displayed. Instead of displaying a stored banner advertisement or redirecting to an advertiser's Web site, the link message at the IAF site redirected a user's browser to an Advertisement Server node. The user node was implemented on a standard personal computer (PC) running a standard unmodified Internet browser.
6. An Advertisement Server node (adserver) was reduced to practice prior to May 1996. The adserver was implemented as a live Internet node using standard PC hardware.
7. The Advertisement Server node responded to a request from a user's browser based on the link message from the Content Provider node to select an advertisement in the form of a banner advertisement for display at the user's browser. Following click through by the user, the Advertisement Server node redirected the user's browser to an Advertiser node. The Advertiser node was a standard Internet Web site.
8. The hardware for the Advertisement Server node was a standard PC running the industry standard Windows NT operating system from Microsoft Corporation. The software for the Advertisement Server node PC was written in the programming language C++. The portion of the C++ programming applicable to selection of advertising (the adserver function) is attached hereto as exhibit A.
9. Taking a closer look at exhibit A:
 - (a) the "GetRequest::service" method (Exhibit A, page DC 069492) shows that, depending upon the request from a user node, the adserver can respond by serving an ad to the user node via the "GetRequest::sendAd" method (Exhibit A, page DC 069494-95), or by enabling the user node to click through a served ad to the corresponding advertiser Web site via the "GetRequest::takeJump" method (Exhibit A, page DC 069495);

- (b) in serving an ad via the "GetRequest::sendAd" method to the user node for display on the Content Provider Web page:
 - i) the adserver retrieves from a database stored information about the user via the "User::lookupUser" method (Exhibit A, page DC 069499) and stored information about the Content Provider Web page via the "SitePage::lookupPage" method (Exhibit A, page DC 069516);
 - ii) the stored user and page information is used to select an ad through the "Ad::getAd" method (Exhibit A, page DC 069503-04);
 - (1) the stored user and page information is used to match an ad's selection criteria in the "Ad::matches" method (Exhibit A, page DC 069502-03);
 - (2) the frequency of exposure of an ad at a user node is controlled in the "Ad::exposuresOK" method (Exhibit A, page DC 069502);
 - iii) depending upon the nature of the selected ad, the adserver either retrieves the selected ad from a database and sends it to the user node via the "GetRequest::send" method (Exhibit A, page DC 069492-93), or the adserver identifies to the user node the ad's location at a different Web site, so that the user node may retrieve and display the ad.
- 10. The operation of each of the component nodes and the system combination of component nodes into a network of nodes was tested prior to May 1996. The tests, which were witnessed prior to May 1996, showed that each of the components and the system combination of components would work for its intended purpose.
- 11. Additional facts regarding the development of our invention and other background about the relevant technology may be found in our declarations under 37 C.F.R. 1.132, filed April 4, 2001 in this action, which are hereby incorporated by reference.

12. We, Dwight A. Merriman and Kevin J. O'Connor, individually declare under penalty of perjury that the above statements are true and correct to the best of our knowledge, information, and belief. We understand that willful false statements and the like are punishable by fine or imprisonment, or both (18 U.S.C. 1001) and may jeopardize the validity of any patent that issues from U.S. Reissue Application No. 09/577,798.

Respectfully submitted,

Date 4-10-02


Dwight A. Merriman

Date 4/10/02


Kevin J. O'Connor

11-Jan-1996 13:25

REQUEST.H

getrequest.h

{ #defined _GETREQUEST_H }

#include "REQUEST.H"

#include "objects.h"

using namespace std;

class CGetRequest : public Request

{

public:

CGetRequest(Connection *c, Verb v,

const char *requestText,

Request *v, Request *from) { }

virtual void service();

};

};

void phoat();

void sendInfo(const char *from);

void sendInfo(const char *from);

void activity(const char *activity);

void sendInfo(const char *from);

void sendInfo(const char *from);

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DC 069484

36-Sep-1995 12:39

MEMBERSAD.H

```
// rememberad.h
//
void rememberad(ad, User *u, const char *fromdoc);
// returns Ad ID
DnsO queryAdent(User *u, const char *fromdoc);
```

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DC 069485

22-Sep-1995 15:20

```
SERVER.H
// server.h
// control ad server startup stuff.
//
//
bool startServer();
```

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DC 069486

02-Jan-1996 14:24

```
STATUS.H
// status.h
void setStatus(const char *s);
extern int addent;
extern int totallatency;
extern int totalladsendtime;
extern int totalladrecvtime;
extern int postTimeOnce;
extern int better, lastDev, testId;
extern int latencyas(int n);
extern int adsendtimeas(int n);
void addent();
```

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DC 069487

03-Jan-1996 17:04

```

REQUEST_H
// request.h
//
// #ifndef REQUEST_H_
// #define REQUEST_H_
// #include "dtoolkit/socket.h"
// enum Verb { UNKNOWN, GET, HEAD, POST };
// class Connection;
// class Request
// {
// public:
//     Request(Connection *c, Verb v,
//             const char *request,
//             const socket_t *in from);
//     virtual void service();
//     unsigned getIp() const { return userIp; }
//     const char *getRequest() const { return request; }
//     Connection *getConnection() const { return c; }
//     void sendInternalError();
// protected:
//     Request(const char *cName, const char *insertStr = 0);
//     Connection *c;
//     const char *request;
//     Verb v;
//     CString fileName;
//     unsigned userIp;
// };
// void sendError(Connection *c, const char *msg, const char *headerField = 0);
// sendif

```

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DC 069488

[illegible]

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DC 069490

32-Dec-1995 11:01

```

LOCATION.cpp
// location.cpp
#include "defs.h"
#include "objects.h"
#include "d/coolkit/repates.h"
#include "d/coolkit/fuel.h"
// next line should be in fuel.h
extern CountryTimezoneMap mapCountryTimezones;
struct todayLightSavings
{
    bool daylightSavings();
    {
        TIME_ZONE_INFORMATION ti;
        DWORD r = GetSystemTimeAdjustment(&ti, 0, 0);
        daylightSavings = ti.DaylightSavings == TIME_ZONE_ID_DAYLIGHT;
    }
} bool daylightSavings;
bool daylightSavings;
get Location::userRelativeTime( time_t timeRelative )
{
    int utc_offset;
    int daylight_bias;
    if( country == 256 ) {
        if( getBaseTimezoneInfo(&utc_offset, daylight_bias) )
            return FALSE;
        else if( country == 0 ) {
            return FALSE;
        }
        return FALSE;
    }
    else {
        DWORD dwbias;
        if( getBaseTimezoneInfo(&dwbias, 0) )
            return FALSE;
        utc_offset = LOWORD(dwbias);
        daylight_bias = HIWORD(dwbias);
    }
}
time_t localtime()
// If timeRelative == 0, this assumes that they want the time
// relative to the current time
time_t = timeRelative;
if (time_t)
{
    time(&time_t);
}
if( !dwDaylightSavings as daylight_bias != TZ_BIAS_UNDETERMINED )
{
    utc_time = daylight_bias + 60 * 60;
    utc_time = utc_offset + 60 * 60;
    return gmtime(&time_t);
}

```

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DC 069491

[illegible]

```

LISTREQUEST.CPP      DC 069493

    u-shesCookie = TRUE;
    u-makePermanent(db);
    sendcookie=FALSE && getgid();
}

// release DB here so that we don't keep a db connection occupied
// while sending the ed
db.commit(1), tcdh);
releasestorobid(tcdh);
}

Crite f_o_
{ if v == GET } {
    CSTRing s = ad-follName();
    if (v==POST) Crite+=modified + cstr(s.hereDanyFrie()) ; {
        message(CSTRing("couldn't open " + s));
        TRACEf(couldn't open %s\n", (const char *) s);
        ASSERT(!false);
        return;
    }
} else {
    n = f_sendbuf(), BUFSIZE);
    ASSERT(n != 0 && n != BUFSIZE );
    // next line is a test for WGS Music HDIO
    //no n :};
char temp[100]; // content length
char *temp;
if (!isascii(temp)) {
    memcpy(cookie,temp,sizeof(cookie));
    printf("\tSet-Cookie: %PAtix; path=/; expires=Tue, 07-Nov-98 23:59:00 GMT;\r\n\r\n");
    sendCookie(value);
} hdr ++ temp;

// test-modified time
hdr += "\tLast-Modified: ", curMPTTime();
//test
//hdr += "\tExpires:=do-cache";
//hdr += "\tVary:";
endianency = GetTickCount();
c-write((const char *) hdr, hdr.GetLength() );
if ("content-type") {
    Content(buf, n);
}

// diagnostic
void GetRequest(pwSctetl)
{ static char *typesStr[] = {
    "Normal",
    "-Text-",
    "-Script-",
    "bin Box"};
}

CURSION HDR =
"-HTTP/1.0 200 OK%\nContent-Type: text/%s%\nContent-Length: ";
char buf(32000);
Buf stream text.buf , 32000, ios.out);
// fill content
"%s-body %lgolar+steficcc%\n";
```

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DC 069493

[illegible][illegible]

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DC 069494

[illegible]

```

//J28-4274
}
addSendTimeOut(endSend - startLatency);
}
// delete ad;
delete page;
delete user;
}
void GetQuest::takeJump(const char *_from)
{
    database db = *getFromool();
    // jumpWhereHere(from);
    return;
}
User *user = User::lookupUser(db, userInfo, request, FALSE);
if (_from != atnrcmp(_from, "www.", 4)) == 0 )
    _from += 4;
CString from;
const char *p = strchr(_from, '.');
if ( p == 0 ) {
    from = _from;
}
wrapint(buf,
        message(buf));
}
else
    from = CString(_from, p - _from);
}
Ad *ad = Ad::findSentoUser(_from);
Stepage page = Stepage::lookUpPage(db, from, request);
//((GetLeave!);
CString s = "Location:";
s += ad->jumpTo[0] + "&iFrom=jsr";
s += "&id=" + toString(ad->id);
CGHTTPRequest cHttpRequest(s,
                        CGHTTPENC, *301 Moved Permanently", s);
cHttp->enterIt();
//((Co-entert);
// Next do this so activity will be logged properly.
// See GetRequest::activity().
user->makePermanent(db);
logJump(ad, user, page);
delete page;
delete ad;
delete user;
db->commitIt();
releaseTool(db);
}

```

DC 069495

[illegible][illegible]

14-Jun-1998 14:10

```
OBJECTS.CPP                                14-Jun-1998 14:10
sendit
    errlog.flush();
}
// temp last known first ad (ISS)
// return new Ad obj ElementAt(0) if
return new Ad (defaulted);
// return 0;
}
sendit
sendit
```

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DC 069500

11-Oct-1995 10:13

```

COOKIE.CPP
// cookie.cpp
//
#include "stdafx.h"
#include "object.h"
//.....
// Cookie
const Cookie Cookie::operator=(const char *s)
{
    assert(s, "s");
    return *this;
}

//static//
Cookie Cookie::allocate(DWORD userID)
{
    ASSERT(userID != 0);
    Cookie h;
    h.userID = userID;
    h.value = 0;
    return h;
}

// Get value for a particular cookie name from the HTTP header
// hdr - points to the Cookie field in the header
void Cookie::getFromHeader(const char *hdr, const char *name)
{
    int hdr ++; // skip "Cookie:"
    const char *p = strchr(hdr, '\n');
    if (p) {
        int nm = name;
        while (nm -- > 0)
            const char *q = strchr(hdr, '=');
        if (q) {
            *this = q + nm - GetLength(q);
        }
    }
}

```

DC 069501

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MATCH.CPP

Page 5(3)

18-Jan-1996 15:15

```

// a truly random distribution is used for them extra then
static int testCounter;
if (testCounter % 4 == 0) { // just try every 4 to save CPU
    testCounter++;
    lowestSI = 1051;
    int i = start;
    while (ad.ad == "ads-Great(1)");
    if (ad.type == Test && ad.si < lowestSI && ad.criteriaOK(db, user, page) )
    {
        lowestSI = ad.si;
        adlowestSI = ad.si;
    }
    i = (i + 1) % nads();
    if (i == start)
        break;
}
if (lowestSI == 1050)
    return adlowestSI;
}

lowestSI = SIMAX;
adlowestSI = defaultAd;
// Check ramants first. This way, we don't
// have to do ad matching for any targeted ad
// with high SI's.
int i = start;
while (ad.ad == "ads-Great(1)");
if (ad.type == Normal && ad.isTargeted() && ad.si < lowestSI && ad.ispreadOK(page) )
{
    lowestSI = ad.si;
    adlowestSI = ad.si;
}
i = (i + 1) % nads();
if (i == start)
    break;
}

// this is temp, eventual all placements will have book rates
// if we want to remove this to get better performance (no ad matching
// if amount has worse SI).
static int counter;
if (counter % 1000 == 0) {
    // for ads with no booking amount.
    // allow a targeted ad to run sometimes
    i = (i + 1) % nads();
    if (i == start)
        break;
}

// for ads where we don't care about # Impressions.
// bias in favor of targeted
if (lowestSI == 1050)
    lowestSI++;

// todo later: if ads are sorted by si (lowest first),
// you can quit matching as soon as you find
// one. Could be a good optimization.

// do targeted
i = start;
while (i) {
    if (ad.ad == "ads-Great(1)");
    if (ad.type == Normal && ad.isTargeted() &&
        ad.si < lowestSI && ad.ispreadOK(page) &&
        ad.matches(user, page) &&
        ad.exposureOK(db, user) ) {
        // found a good one
        lowestSI = ad.si;
    }
}

```

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DC 069504

09-Jan-1996 15:53

REQUEST.CPP

```

void Request::service()
{
    const char *p = strchr(request, '\n');
    if (filename = CString(request, p - request);
    else
        filename = request;

    {
        const char *ip = filename;
        if (*ip == '/')
            p++;
        if (*ip == 0)
            //sendfile("c:\\my documents\\internet address folder\\lafmain.htm");
        else if defined_IAP
            sendfile("c:\\laf\\html\\lafmain.htm");
        return;
    }
    else {
        struct ip_addr_t ip;
        if (strchr(ip, '\n') == 0 && strcmp(ip, "-.") == 0) {
            if (strcmp(ip, "/") != 0) {
                CString f = "c:\\laf\\html\\";
                sendfile(f);
                return;
            }
            else
                if defined_IAP
                {
                    CString f = "c:\\laf\\html\\";
                    if defined_MANAGE
                        CString f = "c:\\lan\\manage\\";
                    else
                        ASSERT(FALSE);
                    CString f = "c:\\my documents\\lad folder\\";
                    sendfile(f);
                    return;
                }
            }
        }
        sendError("404 Not Found");
    }
}

void Request::sendInternalError()
{
    sendError("500 Internal Server Error");
}

```

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DC 069506

[illegible]

```

15-Jan-1996 10:13
SOURCE.CPP
{
    Crc(CrcInit) {
        if( allFeet() ) {
            for( int i = 0 ; i < ads.GetCSize(); i++ ) {
                ads.Remove(i);
            }
            defaultAd = 0;
            ok = loadAds(ads, 0, TRUE, FALSE, FALSE);
            break;
        }
        AllCursors();
        Sleep(50);
    }
    if( ok )
        message("Ad reload completed OK");
    else
        message("Ad reload failure!");
}

// note: this isn't getting called yet
void closeSocket()
{
    if(main.close())
    {}

}

// Ads
AdEntry ads;

class AdCursor : public Cursor
{
public:
    AdCursor()
    {
        bind(SQL_C_LONG, ad.id, 4);
        bind(SQL_C_LONG, ad.ok, sizeof(ad.type));
        bind(SQL_C_LONG, ad.advertiser, sizeof(ad.advertiser));
        bind(SQL_C_LONG, ad.broker, sizeof(ad.domainType));
        bind(SQL_C_LONG, ad.ip, sizeof(ad.ip));
        bind(TInteger);
        bind(id_jump);
        bind(frequency, sizeof(ad.frequency));
        bind(SQL_C_LONG, ad.imageData, sizeof(ad.imageData));
        bind(SQL_C_LONG, ad.userName, sizeof(ad.userName));
        bind(SQL_C_LONG, ad.activeTime, sizeof(ad.nHours));
        bind(SQL_C_LONG, ad.indTime, sizeof(ad.flags));
        bind(SQL_C_LONG, ad.lowestDay, sizeof(ad.horizDay));
        bind(SQL_C_LONG, ad.dayOfWeek, sizeof(ad.nEmployees));
        bind(SQL_C_LONG, ad.saleVolume, sizeof(ad.saleVolume));
        bind(SQL_C_LONG, ad.active, sizeof(ad.active));
        bind(ad.description, sizeof(ad.maxAmount));
        bind(ad.nHours);
        bind(SQL_C_LONG, ad.approved, sizeof(ad.approved));
        bind(SQL_C_LONG, ad.nJump, sizeof(ad.nJump));
    }
};

Ad ad;

// ... TODO!!! This function is not thread-safe.
void recalc()
{
    for( int i = 0; i < ads.GetSize(), i++ ) {
        Ad ad = *ads.GetData(i);
        ad.calcCSI();
    }
};

```


[illegible][illegible]

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DC 069510

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[illegible]

[illegible][illegible]

[illegible]

```

// users.cpp

#include "stdafx.h"
#include "objects.h"
#include "db.h"
#include "at_wtl.h"
#include "afxcookiit/dbutl.h"

// Implementation for hash tables
User* User::lookupUserByDID(DWORD did)
{
    User *u = new User;
    return u;
}

User* User::lookupUserByAddress(DWORD ip)
{
    DWORD userID = -1;
    networkNodeTable->getUserID(ip, FALSE);
    if (userID == -1) {
        // Try to get domain info at least. Note: If user is uniquely
        // identified by email address, we will create a record for the
        // user's login even as it gets a chance.
        userID = networkNodeTable->getUserNetworkNumber(IP, TRUE);
    }
    if (userID != -1) {
        return lookupUserByD(userID);
    }
    return 0;
}

//
class UserCursor : public Cursor
{
public:
    UserCursor(Database db, User *_u) : Cursor(db),
        u(_u) {}

    // last field that isn't derivable from request header
    void getNextRecord() {
        m_bind[SQL_C_LONG, &m_forgotten, sizeof(BOOL)] =
            bind( SQL_C_LONG, &m_hasCookie, sizeof(BOOL)) ;
    }

    User *u;

};

void User::lookupFunc() {try {do(Database db)
{
    if (userID == 0) {
        return;
    }

    Cursor c(db);
    char sql[128];
    sprintf(sql, "select email from users where id=%d", userID);
    c.bindEmailAddr();
    c.execute();
    c.fetchNext();
    do {continue;}
} while (!c.isLast());

User* user = lookupUserByD(Database db, DID(userID));
if (user == NULL) {
    User *u = new User;
    UserCursor uc(u, DB);
    uc.getNextRecord();
    char sql[128];
    sprintf(sql, "select exp_tried, has_cookie from users where id=%d", userID);
    if (timestamp != 0)
        c.setTimeOut(1);
    c.execute();
}
});
}

```

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DC 069514

20-Dec-1995 16:52

users.cpp

```
addBool(buf, hasCookie, FALSE);
strcpy(buf, "");
if (db.define(buf) == 1) {
    CreateTable(C_LONG, userID, 4);
    CreateIndex(C_LONG, userID, 4);
    strcpy(buf, "select max(id) from users where ip=");
    strcat(buf, ip);
    c.execute(buf);
    c.fetchone();
    ASSERT(userID == 0);
}
db.commit();
}
```

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DC 069515

19-Jan-1996 15:58

AD_CPY

```

1  strftime estime, %m/%d/%y", gtime( starttime ) );
2  addvalue( buf, estime );
3  if ( ! )
4  else
5  {
6      strcat( buf, "(null)" );
7  }
8  strcat( buf, "end_time=" );
9  if ( ! )
10 {
11     strftime estime, %m/%d/%y", gtime( lendtime ) );
12     addvalue( buf, estime, FALSE );
13 }
14 else
15 {
16     strcat( buf, "(null)" );
17 }
18 strcat( buf, "where (id=" );
19 addvalue( buf, id, FALSE );
20 if ( ! )
21 {
22     strftime-estac( buf ) != 3 );
23     ASSERT( 0 );
24     return( FALSE );
25 }
26 return( AddPlacementTables( id ) );
27 }
28 return( FALSE );
29 }
30
31
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AD.CTP

```
serialNum = 0;
delete [] siteCodes;
siteCodes = NULL;
delete [] locations;
locations = NULL;
targetPages.RemoveAll();
targetSites.RemoveAll();
siteCategories.RemoveAll();
interests.RemoveAll();
adDescription.Empty();
adDescription.RemoveAll();
jumpTo.Empty();
}

SendIt
```

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